

# Characterization of calcium oxide catalysts from natural sources and their use in the transesterification of sunflower oil

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Citation Report

#	ARTICLE	IF	CITATIONS
1	An Investigation of Biodiesel Production from Wastes of Seafood Restaurants. International Journal of Biomaterials, 2014, 2014, 1-17.	1.1	16
2	Biodiesel production from transesterification of palm oil with methanol over CaO supported on bimodal meso-macroporous silica catalyst. Bioresource Technology, 2014, 156, 329-334.	4.8	91
3	Ultrasonic-assisted production of biodiesel from transesterification of palm oil over ostrich eggshell-derived CaO catalysts. Bioresource Technology, 2014, 171, 428-432.	4.8	150
4	Heterogeneous Oil Transesterification in a Single-Phase Liquid Mixture using a Co-Solvent for Improved Biofuels Production. Energy Technology, 2015, 3, 1170-1173.	1.8	8
5	A review on recent advancement in catalytic materials for biodiesel production. Renewable and Sustainable Energy Reviews, 2015, 50, 696-718.	8.2	309
6	Coupling transesterifications for no-glycerol biodiesel production catalyzed by calcium oxide. Comptes Rendus Chimie, 2015, 18, 1328-1334.	0.2	19
7	Characterization and application of dolomite as catalytic precursor for canola and sunflower oils for biodiesel production. Chemical Engineering Journal, 2015, 269, 35-43.	6.6	101
8	Transesterification of palm oil to biodiesel using rice husk ash-based catalysts. Fuel Processing Technology, 2015, 133, 8-13.	3.7	136
9	A biomimetic silicification approach to synthesize Ca-SiO <sub>2</sub> catalyst for the transesterification of palm oil into biodiesel. Fuel, 2015, 153, 48-55.	3.4	101
10	Issues concerning the use of renewable Ca-based solids as transesterification catalysts. Fuel, 2015, 158, 558-564.	3.4	18
11	Transesterification of Jatropha and Karanja oils by using waste egg shell derived calcium based mixed metal oxides. Energy Conversion and Management, 2015, 96, 258-267.	4.4	116
12	Porous CaO-based catalyst derived from PSS-induced mineralization for biodiesel production enhancement. Energy Conversion and Management, 2015, 106, 405-413.	4.4	32
13	Properties of Waste Eggshell as Calcium Oxide Catalyst. Applied Mechanics and Materials, 0, 754-755, 171-175.	0.2	24
14	In situ heterogeneous transesterification of microalgae using combined ultrasound and microwave irradiation. Energy Conversion and Management, 2015, 90, 41-46.	4.4	62
15	Calcium/chitosan spheres as catalyst for biodiesel production. Polymer International, 2015, 64, 242-249.	1.6	19
16	Ammonia nitrogen removal in a biological nitrifying system using oyster shells as alkalinity-releasing filling materials. , 2016, , .		0
17	Green Biodiesel Synthesis Using Waste Shells as Sustainable Catalysts with <i>Camelina sativa</i> Oil. Journal of Chemistry, 2016, 2016, 1-10.	0.9	17
18	Analysis of past experimental data in literature to determine conditions for high performance in biodiesel production. Biofuels, Bioproducts and Biorefining, 2016, 10, 422-434.	1.9	27

#	ARTICLE	IF	CITATIONS
19	Climate Change, Biofuels, and Conflict. , 2016, , 43-58.		1
20	Removal of astrazon blue dye from aqueous media by a low-cost adsorbent from coal mining. Desalination and Water Treatment, 2016, 57, 27213-27225.	1.0	2
21	Catalytic applications of calcium rich waste materials for biodiesel: Current state and perspectives. Energy Conversion and Management, 2016, 127, 273-283.	4.4	67
22	One-pot solvent-free synthesis of fatty acid alkanoamides from natural oil triglycerides using alkali metal doped CaO nanoparticles as heterogeneous catalyst. Journal of Industrial and Engineering Chemistry, 2016, 38, 43-49.	2.9	11
23	Biodiesel production from palm oil using hydrated lime-derived CaO as a low-cost basic heterogeneous catalyst. Energy Conversion and Management, 2016, 108, 459-467.	4.4	140
24	Remarkably enhancing the biodiesel yield from palm oil upon abalone shell-derived CaO catalysts treated by ethanol. Fuel Processing Technology, 2016, 143, 110-117.	3.7	59
25	Innovation in solid heterogeneous catalysis for the generation of economically viable and ecofriendly biodiesel: A review. Catalysis Reviews - Science and Engineering, 2016, 58, 157-208.	5.7	89
26	Optimization and kinetics of sunflower oil methanolysis catalyzed by calcium oxide-based catalyst derived from palm kernel shell biochar. Fuel, 2016, 163, 304-313.	3.4	117
27	Amino-modified pillared adsorbent from water-treatment solid wastes applied to CO <sub>2</sub> /N <sub>2</sub> separation. Adsorption, 2017, 23, 405-421.	1.4	16
28	CaO and isopropanol transesterify and crack triglycerides to isopropyl esters and green diesel. Energy Conversion and Management, 2017, 139, 71-78.	4.4	17
29	Eggshell waste as catalyst: A review. Journal of Environmental Management, 2017, 197, 351-359.	3.8	164
30	Glycerol oligomers production by etherification using calcined eggshell as catalyst. Molecular Catalysis, 2017, 433, 282-290.	1.0	28
31	Egg shell waste as heterogeneous nanocatalyst for biodiesel production: Optimized by response surface methodology. Journal of Environmental Management, 2017, 198, 319-329.	3.8	177
32	Optimisation of biodiesel production from waste vegetable oil and eggshell ash. South African Journal of Chemical Engineering, 2017, 23, 145-156.	1.2	78
33	Experimental evaluation of the catalytic efficiency of calcium based natural and modified catalyst for biodiesel synthesis. International Journal of Green Energy, 2017, 14, 878-888.	2.1	9
34	A review of biomass-derived heterogeneous catalyst for a sustainable biodiesel production. Renewable and Sustainable Energy Reviews, 2017, 70, 1040-1051.	8.2	332
35	The effect of HfO <sub>2</sub> on the magnetic anisotropy, electrical structure and microstructure of CoFeB/MgO films. Journal of Alloys and Compounds, 2017, 725, 425-432.	2.8	6
36	Valorization of biomass to hydroxymethylfurfural, levulinic acid, and fatty acid methyl ester by heterogeneous catalysts. Chemical Engineering Journal, 2017, 328, 246-273.	6.6	196

#	ARTICLE	IF	CITATIONS
37	Relevance of the Physicochemical Properties of Calcined Quail Eggshell (CaO) as a Catalyst for Biodiesel Production. <i>Journal of Chemistry</i> , 2017, 2017, 1-12.	0.9	37
38	Ammonia Nitrogen Removal Using Oyster Shell as Alkalinity-Releasing Media in a Biological Nitrification System. <i>Transactions of the ASABE</i> , 2017, 60, 1721-1728.	1.1	2
39	Marble slurry derived hydroxyapatite as heterogeneous catalyst for biodiesel production from soybean oil. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 1873-1880.	0.9	32
40	Enhancing Biodiesel Production Using Green Glycerol-Enriched Calcium Oxide Catalyst: An Optimization Study. <i>Catalysis Letters</i> , 2018, 148, 1169-1180.	1.4	12
41	Modified waste egg shell derived bifunctional catalyst for biodiesel production from high FFA waste cooking oil. A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3645-3655.	8.2	159
42	Rice bran oil based biodiesel production using calcium oxide catalyst derived from <i>Chicoreus brunneus</i> shell. <i>Energy</i> , 2018, 144, 10-19.	4.5	130
43	Synthesis of a New Copper-Based Supramolecular Catalyst and Its Catalytic Performance for Biodiesel Production. <i>International Journal of Chemical Engineering</i> , 2018, 2018, 1-7.	1.4	2
44	GOLDEN APPLE CHERRY SNAIL SHELL AS CATALYST FOR HETEROGENEOUS TRANSESTERIFICATION OF BIODIESEL. <i>Brazilian Journal of Chemical Engineering</i> , 2018, 35, 1283-1291.	0.7	20
45	Transesterification of Karanja ( <i>Pongamia Pinnata</i> ) oil using barnacle derived CaO mixed ZnO. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
46	Biodiesel production over a catalyst prepared from biomass-derived waste date pits. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2018, 20, e00284.	2.1	52
47	Catalysts from renewable resources for biodiesel production. <i>Energy Conversion and Management</i> , 2018, 178, 277-289.	4.4	133
48	Highly active Cao catalysts from waste shells of egg, oyster and clam for biodiesel production. <i>Applied Catalysis A: General</i> , 2018, 567, 56-64.	2.2	50
49	Optimization of Biodiesel Production over Chicken Eggshell-Derived CaO Catalyst in a Continuous Centrifugal Contactor Separator. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 12742-12755.	1.8	45
50	Development of heterogeneous alkali catalyst from waste chicken eggshell for biodiesel production. <i>Renewable Energy</i> , 2018, 128, 142-154.	4.3	117
51	In situ transesterification of solid coconut waste in a packed bed reactor with CaO/PVA catalyst. <i>Waste Management</i> , 2018, 78, 929-937.	3.7	13
52	General Concepts for Catalytic Synthesis of Biodiesel from Waste Cooking Oil. <i>Green Energy and Technology</i> , 2018, , 429-455.	0.4	2
53	Waste snail shell derived heterogeneous catalyst for biodiesel production by the transesterification of soybean oil. <i>RSC Advances</i> , 2018, 8, 20131-20142.	1.7	183
54	Impact assessment of biodiesel production using CaO catalyst obtained from two different sources. <i>Cogent Engineering</i> , 2019, 6, .	1.1	10

#	ARTICLE	IF	CITATIONS
55	Synthesis of highly active ETS-10-based titanosilicate for heterogeneously catalyzed transesterification of triglycerides. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 2039-2061.	1.5	2
56	Techno-Economic Performance of Different Technological Based Bio-Refineries for Biofuel Production. <i>Energies</i> , 2019, 12, 3916.	1.6	13
57	Performance evaluation of natural catalysts during the thermochemical conversion of poultry litter. <i>Chemical Engineering Research and Design</i> , 2019, 131, 144-151.	2.7	4
58	Eggshell-Derived Nanohydroxyapatite Adsorbent for Defluoridation of Drinking Water from Bofo of Ethiopia. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-12.	1.5	11
59	Benign-by-design nature-inspired nanosystems in biofuels production and catalytic applications. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 195-252.	8.2	76
60	Techno-economic performance of a bio-refinery for the production of fuel-grade biofuel using a green catalyst. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 936-949.	1.9	7
61	Preparation and Characterization of Biomass Carbon-Based Solid Acid Catalysts for the Esterification of Marine Algae for Biodiesel Production. <i>Bioenergy Research</i> , 2019, 12, 433-442.	2.2	17
62	Outstanding performance of waste chicken eggshell derived CaO as a green catalyst in biodiesel production: Optimization of calcination conditions. <i>Journal of Physics: Conference Series</i> , 2019, 1349, 012051.	0.3	3
63	Preparation of cellulose/CaO-Fe <sub>2</sub> O <sub>3</sub> nanocomposites as catalyst for fatty acid methyl ester production. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	8
64	Soybean Oil Transesterification for Biodiesel Production with Micro-Structured Calcium Oxide (CaO) from Natural Waste Materials as a Heterogeneous Catalyst. <i>Energies</i> , 2019, 12, 4670.	1.6	21
65	Disposable baby diapers waste derived catalyst for synthesizing glycerol carbonate by the transesterification of glycerol with dimethyl carbonate. <i>Journal of Cleaner Production</i> , 2019, 211, 330-341.	4.6	52
66	Biodiesel production from cotton oil using heterogeneous CaO catalysts from eggshells prepared at different calcination temperatures. <i>Green Processing and Synthesis</i> , 2019, 8, 235-244.	1.3	18
67	Synthesis and application of Co doped ZnO as heterogeneous nanocatalyst for biodiesel production from non-edible oil. <i>Renewable Energy</i> , 2019, 133, 512-519.	4.3	116
68	Efficient catalytic production of biodiesel using nano-sized sugar beet agro-industrial waste. <i>Fuel</i> , 2020, 261, 116481.	3.4	59
69	Biodiesel production using a renewable mesoporous solid catalyst. <i>Industrial Crops and Products</i> , 2020, 145, 111911.	2.5	84
70	Synthesis of intense red light-emitting $\text{Ca}_2\text{SiO}_4:\text{Eu}^{3+}$ phosphors for near UV-excited light-emitting diodes utilizing agro-food waste materials. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1912-1928.	1.1	9
71	Solvent-free $\text{CaO}/\text{Ca}(\text{OH})_2$ mixed-phase nanocatalytic single-step methanolysis, ethanolysis and aminolysis of <i>Pongamia pinnata</i> triglycerides. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 18, 100317.	1.6	3
72	Widely used catalysts in biodiesel production: a review. <i>RSC Advances</i> , 2020, 10, 41625-41679.	1.7	179

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73	Conversion of Au(III)-polluted waste eggshell into functional CaO/Au nanocatalyst for biodiesel production. <i>Green Energy and Environment</i> , 2022, 7, 352-359.	4.7	25
74	The present state of the use of eggshell powder in concrete: A review. <i>Journal of Building Engineering</i> , 2020, 32, 101583.	1.6	44
75	Biodiesel production from refined used cooking oil using co-metal oxide catalyzed transesterification. <i>Renewable Energy</i> , 2020, 153, 1-11.	4.3	39
76	Taming waste: Waste <i>Mangifera indica</i> peel as a sustainable catalyst for biodiesel production at room temperature. <i>Renewable Energy</i> , 2020, 161, 207-220.	4.3	59
77	Transesterification of soybean oil at room temperature using biowaste as catalyst; an experimental investigation on the effect of co-solvent on biodiesel yield. <i>Renewable Energy</i> , 2020, 162, 98-111.	4.3	49
78	Synthesis of the ZnO-Ni <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> -Fe <sub>2</sub> O <sub>3</sub> magnetic catalyst in pilot-scale by combustion reaction and its application on the biodiesel production process from oil residual. <i>Arabian Journal of Chemistry</i> , 2020, 13, 7665-7679.	2.3	18
79	Synthesis of nanocomposites cellulose-Fe <sub>3</sub> O <sub>4</sub> /ZnO as novel green catalyst for biodiesel production from coconut oil. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 959, 012016.	0.3	4
80	Contemporary approaches towards augmentation of distinctive heterogeneous catalyst for sustainable biodiesel production. <i>Environmental Technology and Innovation</i> , 2020, 19, 100906.	3.0	34
81	Utilisation of Eggshell Powder (ESP) as Partial Replacement of Cement Incorporating Superplasticizer. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 840, 012016.	0.3	6
82	Catalytic efficiency of the eggshell calcined and enriched with glycerin in the synthesis of biodiesel from frying residual oil. <i>Environmental Science and Pollution Research</i> , 2020, 27, 17878-17890.	2.7	5
83	Synthesis and characterization of nanostructured calcium oxides supported onto biochar and their application as catalysts for biodiesel production. <i>Renewable Energy</i> , 2020, 160, 52-66.	4.3	53
84	The Production of Biodiesel from Waste Cooking Oil (Simultaneous Esterification and) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 30</i> 990, 161-167.	0.3	3
85	One-pot solvent-free transformation of natural triglycerides to ester and amide derivatives over CaO@KC nanostructured catalysts. <i>International Journal of Energy Research</i> , 2020, 44, 4568-4585.	2.2	3
86	Synthesis of solid catalyst from natural calcite for biodiesel production: Case study of palm kernel oil in an optimization study using definitive screening design. <i>Biofuels</i> , 2021, 12, 703-714.	1.4	5
87	Transesterification of <i>Jatropha</i> oil to biodiesel using SrO catalysts modified with CaO from waste eggshell. <i>Catalysis Communications</i> , 2021, 149, 106233.	1.6	30
88	A review on the waste biomass derived catalysts for biodiesel production. <i>Environmental Technology and Innovation</i> , 2021, 21, 101200.	3.0	98
89	Composite catalytic materials based on k-carrageenan and CaO used on the transesterification of soybean oil for the process of biodiesel obtention. <i>Catalysis Today</i> , 2021, 379, 96-104.	2.2	1
90	Strontium Oxide Nanoparticles for Biodiesel Production: Fundamental Insights and Recent Progress. <i>Energy &amp; Fuels</i> , 2021, 35, 187-200.	2.5	18

#	ARTICLE	IF	CITATIONS
91	Basic properties of biodiesel soot. , 2021, , 57-90.		0
92	Nanomaterials obtained from renewable resources and their application as catalysts in biodiesel synthesis. , 2021, , 481-509.		3
93	Biodiesel production from preutilized cooking oil using a renewable heterogeneous eggshellâ€œcoconut pith catalyst: Process optimization and characterization. Environmental Progress and Sustainable Energy, 2021, 40, e13632.	1.3	8
94	Improved biodiesel production from waste cooking oil with mixed methanolâ€œethanol using enhanced eggshell-derived CaO nano-catalyst. Scientific Reports, 2021, 11, 6708.	1.6	79
95	Na-CaO/MgO dolomites used as heterogeneous catalysts in canola oil transesterification for biodiesel production. Materials Letters, 2021, 291, 129587.	1.3	17
97	A novel CaO-based catalyst obtained from silver croaker (Plagioscion squamosissimus) stone for biodiesel synthesis: Waste valorization and process optimization. Renewable Energy, 2021, 172, 1035-1045.	4.3	17
98	Role of Metals in Biochar Production and Utilization in Catalytic Applications: A Review. Waste and Biomass Valorization, 2022, 13, 797-822.	1.8	13
99	A review on the utilization of calcium oxide as a base catalyst in biodiesel production. Journal of Environmental Chemical Engineering, 2021, 9, 105741.	3.3	50
100	Snail Shells Adsorbent for Copper Removal from Aqueous Solutions and the Production of Valuable Compounds. Journal of Chemistry, 2021, 2021, 1-15.	0.9	6
101	Geothermal solid waste derived Ni/Zeolite catalyst for waste cooking oil processing. Chemosphere, 2022, 286, 131618.	4.2	16
102	SYNTHESIS OF SOLID CATALYST FROM DOLOMITE FOR BIODIESEL PRODUCTION USING PALM KERNEL OIL IN AN OPTIMIZATION PROCESS BY DEFINITIVE SCREENING DESIGN. Brazilian Journal of Chemical Engineering, 2019, 36, 979-994.	0.7	10
103	Deactivation Processes, Regeneration Conditions and Reusability Performance of CaO or MgO Based Catalysts Used for Biodiesel Productionâ€œA Review. Materials Sciences and Applications, 2017, 08, 94-122.	0.3	13
104	Transesterification of Waste Cooking Oil using Calcium Loaded on Deoiled Spent Bleaching Clay as A Solid Base Catalyst. Bulletin of Chemical Reaction Engineering and Catalysis, 2016, 11, 176-181.	0.5	3
105	Advanced Chemical Reactor Technologies for Biodiesel Production from Vegetable Oils - A Review. Bulletin of Chemical Reaction Engineering and Catalysis, 2016, 11, 406-430.	0.5	38
106	pamuk yaÄŸÄ± metil ester-iurodizel yakÄ±t karÄ±ÄŸÄ±mlarÄ±nÄ±n direkt pÄ±skÄ±rtmeli bir dizel motorunun yanma, performans ve emisyon karakteristiklerine etkisi. Journal of the Faculty of Engineering and Architecture of Gazi University, 2018, 2018, .	0.3	1
107	A review on biodiesel production using eggshell as catalyst. International Journal of Energy Applications and Technologies, 0, , 147-152.	0.1	1
108	A review of sustainable biodiesel production using biomass derived heterogeneous catalysts. Engineering in Life Sciences, 2021, 21, 790-824.	2.0	25
109	Biomassâ€œbased heterogeneous catalysts for biodiesel production: A comprehensive review. International Journal of Energy Research, 2022, 46, 3782-3809.	2.2	20

#	ARTICLE	IF	CITATIONS
110	Exploration of combustion behavior in a compression ignition engine fuelled with low-viscous Pimpinella anisum and waste cooking oil biodiesel blends. <i>Journal of Cleaner Production</i> , 2022, 331, 129999.	4.6	30
111	Calcium carbonate nanoparticles of quail's egg shells: Synthesis and characterizations. <i>Journal of the Mechanical Behavior of Materials</i> , 2022, 31, 1-7.	0.7	8
112	Optimizing the Production of Biodiesel from Waste Cooking Oil Utilizing Industrial Waste-Derived MgO/CaO Catalysts. <i>Chemical Engineering and Technology</i> , 2022, 45, 348-354.	0.9	16
113	Utilization of biowaste-derived catalysts for biodiesel production: process optimization using response surface methodology and particle swarm optimization method. <i>Energy Advances</i> , 2022, 1, 287-302.	1.4	14
114	Effectiveness of Eggshells as Natural Heterogeneous Catalysts for Transesterification of Rapeseed Oil with Methanol. <i>Catalysts</i> , 2022, 12, 246.	1.6	9
115	Heterogeneous Biodiesel Catalyst from Steel Slag Resulting from an Electric Arc Furnace. <i>Processes</i> , 2022, 10, 465.	1.3	5
116	Application of dewatered paper sludge-derived porous solid base catalyst for biodiesel production: Physicochemical properties, reaction kinetics and thermodynamic studies. <i>Environmental Technology (United Kingdom)</i> , 2022, , 1-18.	1.2	1
117	Converting Waste Cooking Oil to Biodiesel Catalyzed by NaOH-Impregnated CaO Derived from Cockle Shell ( <i>Anadara granosa</i> ). <i>Kinetics and Catalysis</i> , 2021, 62, 860-865.	0.3	1
118	Phase Analysis of Bio-Based Derived Tricalcium Disilicate From $2\text{CaO}:1\text{SiO}_2$ By X-ray Diffraction. <i>Journal of Physics: Conference Series</i> , 2021, 2129, 012054.	0.3	0
119	Sustainable and greener concrete production by utilizing waste eggshell powder as cementitious material – A review. <i>Construction and Building Materials</i> , 2022, 335, 127482.	3.2	19
120	High calcium content of <i>Eucalyptus dunnii</i> wood affects delignification and polysaccharide degradation in kraft pulping. <i>Nordic Pulp and Paper Research Journal</i> , 2022, 37, 338-348.	0.3	2
121	Pelatihan Pembuatan Biodiesel Berbahan Baku Minyak Jelantah Kepada Komunitas Pengguna Teknologi Tepat Guna. , 2021, 2, 109-118.		1
122	Biodiesel from waste oil under mild conditions by a combination of calcium-strontium oxide nanocatalyst and ultrasonic waves. <i>International Journal of Energy Research</i> , 2022, 46, 13781-13800.	2.2	3
123	Sanitary Ware Waste as a Source for a Valuable Biodiesel Catalyst. <i>Journal of Chemistry</i> , 2022, 2022, 1-12.	0.9	1
124	New Catalysts for Biodiesel Production under Supercritical Conditions of Alcohols: A Comprehensive Review. <i>ChemistrySelect</i> , 2022, 7, .	0.7	4
125	Base-free oxidation of 5-hydroxymethylfurfural to 2, 5-furandicarboxylic acid over pygorskite-supported bimetallic Pt-Pd catalyst. <i>Applied Clay Science</i> , 2022, 226, 106574.	2.6	14
127	Biodiesel Synthesis from Refined Palm Oil Using a Calcium Oxide Impregnated Ash-Based Catalyst: Parametric, Kinetics, and Product Characterization Studies. <i>Catalysts</i> , 2022, 12, 706.	1.6	1
128	Application of powdered bio-composites in the field of self-compacting concrete: A review. <i>Construction and Building Materials</i> , 2022, 346, 128318.	3.2	3



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129	Biodiesel production from waste cooking oil using a waste diaper derived heterogeneous magnetic catalyst. <i>Brazilian Journal of Chemical Engineering</i> , 2023, 40, 511-520.	0.7	14
130	Microwave-assisted synthesis of glycerol carbonate by transesterification of glycerol using <i>Mangifera indica</i> peel calcined ash as catalyst. <i>Fuel</i> , 2022, 330, 125511.	3.4	20
131	Mussel shell based CaO nano-catalyst doped with praseodymium to enhance biodiesel production from castor oil. <i>Fuel</i> , 2022, 330, 125480.	3.4	16
132	Highly thermally stable multi-porous calcium aluminum hydrotalcite catalyst for efficient carbonate synthesis. <i>Fuel</i> , 2022, 330, 125696.	3.4	4
133	Production of biodiesel from waste cooking oil utilizing zinc oxide nanoparticles combined with tungsto phosphoric acid as a catalyst and its performance on a CI engine. <i>Fuel</i> , 2022, 329, 125411.	3.4	9
134	Biodiesel production from <i>Argemone mexicana</i> oil using chicken eggshell derived CaO catalyst. <i>Fuel</i> , 2023, 332, 126166.	3.4	31
135	Effects of quicklime conditioning on the volatile reforming and tar elimination performance of sewage sludge pyrochar. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 168, 105732.	2.6	5
136	Biodiesel production from rapeseed oil over calcined waste filter cake from sugar beet processing. <i>Chemical Engineering Research and Design</i> , 2022, 168, 463-473.	2.7	6
137	Towards sustainable continuous co-production of biodiesel and ether from wet microalgae- a review. <i>Biofuels</i> , 2023, 14, 421-432.	1.4	1
138	Power of recycling waste cooking oil into biodiesel via green CaO-based eggshells/Ag heterogeneous nanocatalyst. <i>Renewable Energy</i> , 2023, 202, 1412-1423.	4.3	15
139	Snail Shells as a Heterogeneous Catalyst for Biodiesel Fuel Production. <i>Processes</i> , 2023, 11, 260.	1.3	6
140	Rapeseed Oil Transesterification Using 1-Butanol and Eggshell as a Catalyst. <i>Catalysts</i> , 2023, 13, 302.	1.6	2
141	Efficient mineralization of organic pollutants in water via a phenol-responsive catalytic ozonation process. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2023, 145, 104804.	2.7	7
142	Treatment of Fly-Ash-Contaminated Wastewater Loaded with Heavy Metals by Using Fly-Ash-Synthesized Iron Oxide Nanoparticles. <i>Water (Switzerland)</i> , 2023, 15, 908.	1.2	17
143	Maximizing biodiesel production from waste cooking oil with lime-based zinc-doped CaO using response surface methodology. <i>Scientific Reports</i> , 2023, 13, .	1.6	12
144	Application of ultrasound technology in the intensification of biodiesel production from bitter almond oil (BAO) in the presence of biocompatible heterogeneous catalyst synthesized from camel bone. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 4064-4086.	1.2	1
148	Waste management and valorization in the biodiesel industry. , 2023, , 239-260.		1
149	Biomass derived heterogeneous catalysts used for sustainable biodiesel production: a systematic review. <i>Brazilian Journal of Chemical Engineering</i> , 0, , .	0.7	0

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